With Integrated AC Unit Control

Installation and User Manual

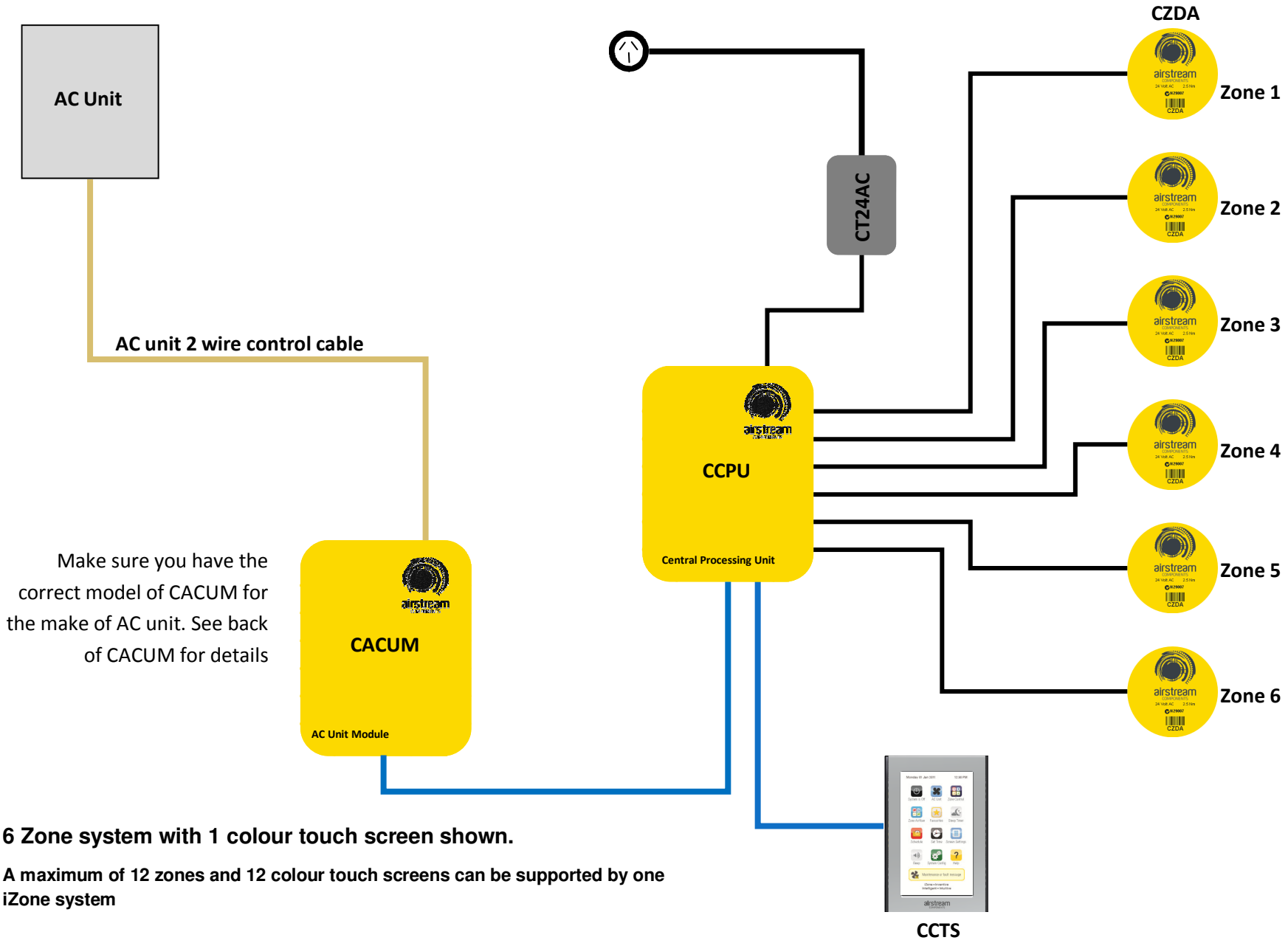
Table of contents

Section	Description	Page No.
1.0	**Installation**	4
1.1	Standard wiring layout for open / close zone system	4
1.2	Wiring layout when temperature controlled zones are installed	5
1.3	Wiring when more that 3 colour touch screens are installed	6
1.4	Installation instructions	7
2.0	**System initialisation**	8
2.1	System configuration	9
2.2	Change the password	9
2.3	Set the number of zones	9
2.4	Set the number of constants	9
2.5	Change the tag lines	9
2.6	Lock / unlock user airflow volume adjustment	9
2.7	Zone set up	10
2.8	AC unit configuration	11

Table of contents

Section	Description	Page No.
3.0	**User manual**	12
3.0	Home screen	12
3.1	AC unit	13
3.2	Zone control	14
3.2.1	Edit zone names and settings	15
3.2.2	Adjusting temperature controlled zones	16
3.3	Zone airflow summary	17
3.3.1	Changing zone airflow	18
3.4	Favourites	19
3.4.1	Assign and edit favourites	20
3.5	Schedules	21
3.5.1	Setting and editing a schedule	22
3.6	Setting the time	23
3.7	Setting the home screen colour	24
3.8	Further assistance	25

1.1 Standard wiring layout for open / close zone system

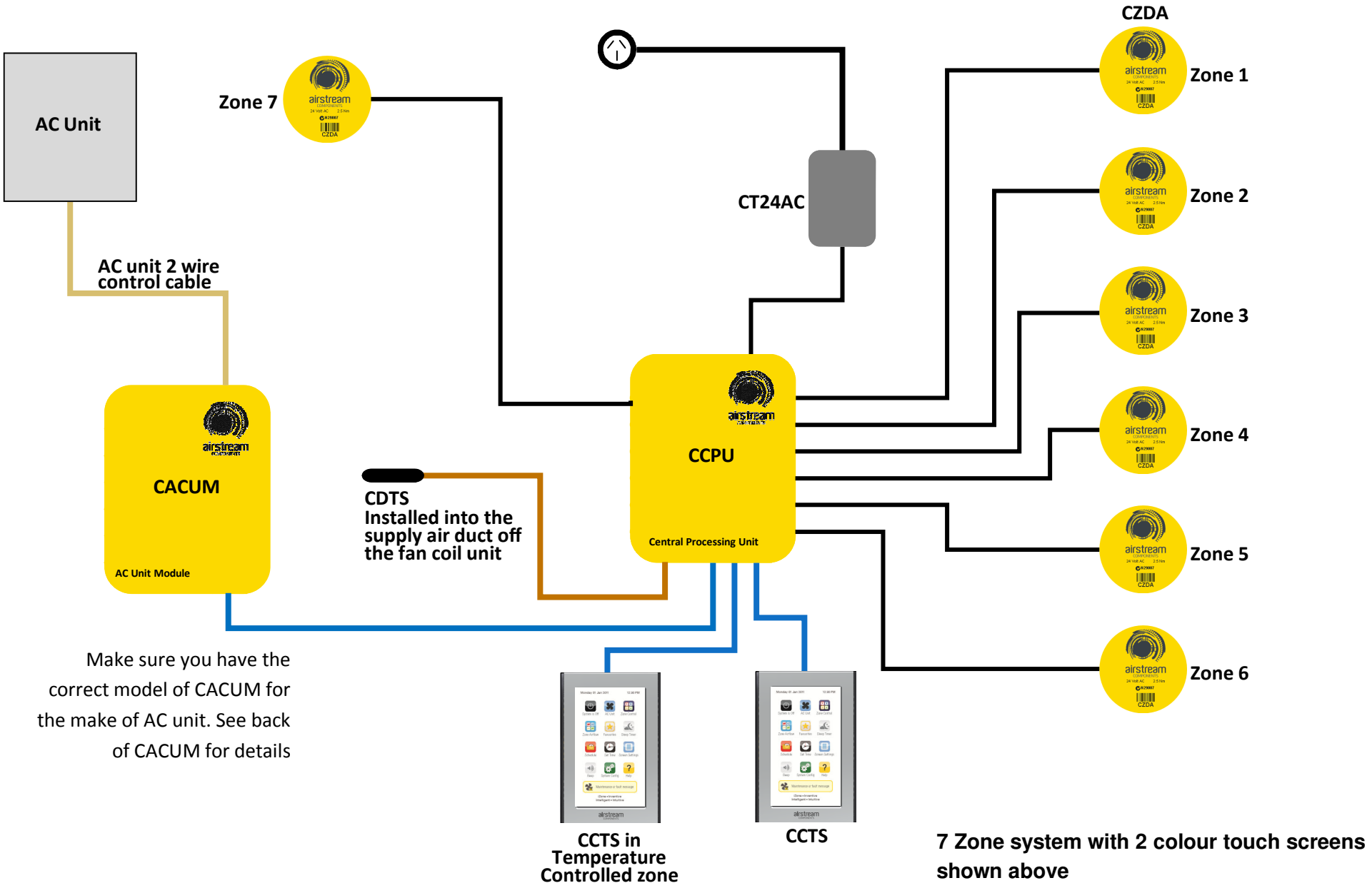


Make sure you have the correct model of CACUM for the make of AC unit. See back of CACUM for details

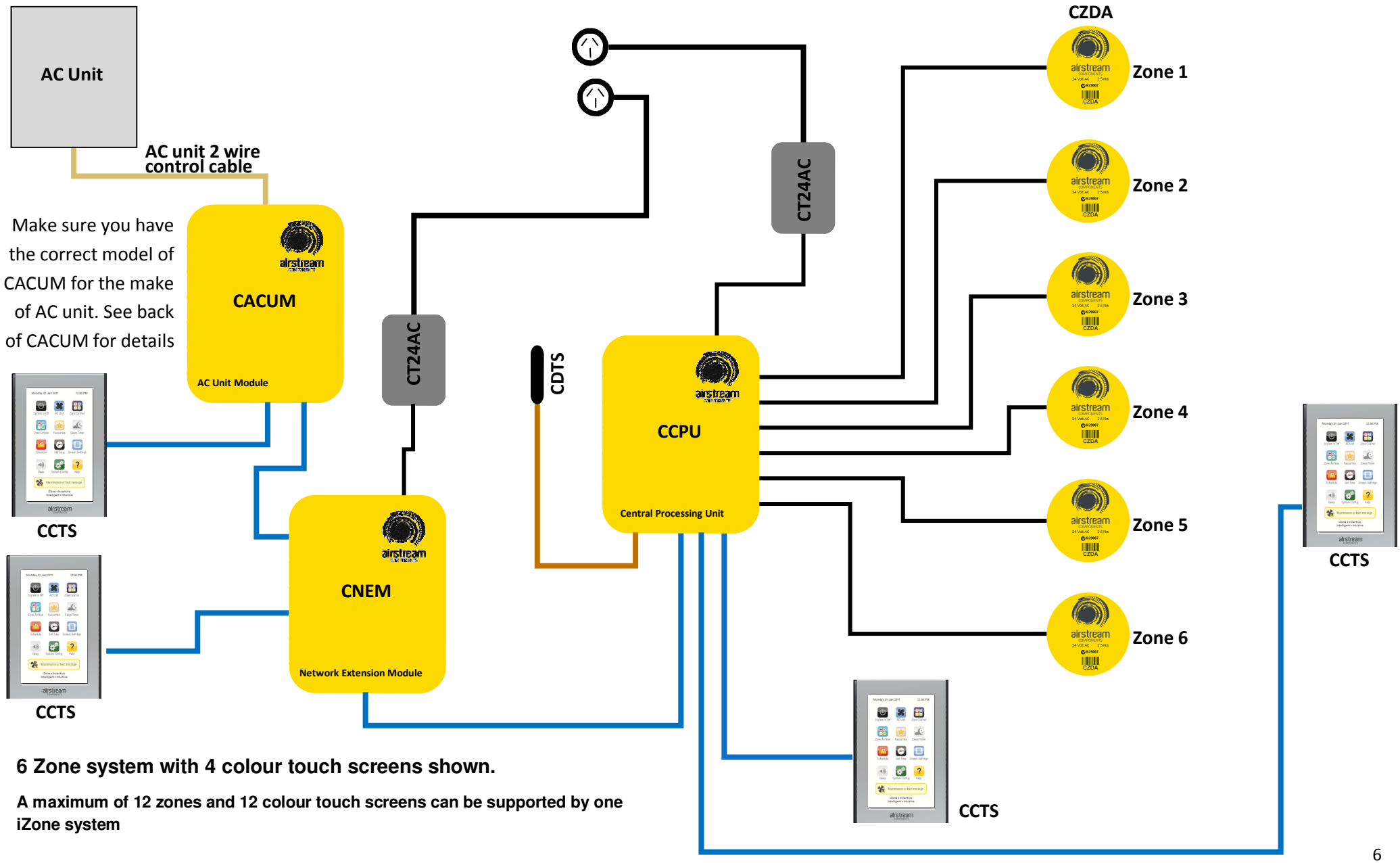
6 Zone system with 1 colour touch screen shown.

A maximum of 12 zones and 12 colour touch screens can be supported by one iZone system

1.2 Wiring layout when temperature controlled zones are installed



1.3 Wiring when more than 3 colour touch screens are installed



6 Zone system with 4 colour touch screens shown.

A maximum of 12 zones and 12 colour touch screens can be supported by one iZone system

1.4 Installation instructions

1. The CCPU and CACUM can be installed on top of the indoor fan coil unit.
2. Do **not** run the blue network cables alongside 240 Volt wiring.
3. When installing network cables down wall cavities or chasing network cables into walls, tape up and protect the RJ45 connector to avoid damage to the connectors.
4. Always install zones in consecutive ports starting at Zone 1. The back of the CCPU is marked with the zone port numbers.
5. Do not directly hardwire the CT24V into the AC unit's power supply. This may void the warranty as it will require an electrician in the event that a repair of the iZone system is required.
6. Connect Zone Damper Actuators (CZDA) to the zone ports using the RJ11 cables as shown.
7. Connect the Colour Touch Screens (CCTS) to the CCTS ports using the RJ45 cables. If you are connecting more than 3 CCTS to the system you will need to connect a Network Extension Module (CNEM) to the CCPU using a short RJ45 cable. The CACUM will also support one CCTS.
8. If any CCTS is being used for zone temperature control connect a Duct Temperature Sensor (CDTS) to the CDTS port. Install the sensor into the supply air duct upstream of all dampers. Secure the sensor in place by using reinforced aluminium tape.
9. When installing temperature controlled zones ensure the CCTS for the associated zone is installed in a location that is representative of the temperature in the room / zone . The CCTS should be installed at approximately 1600mm above the floor and should not be subject to draughts, direct sunlight or heat from equipment such as computers, TV screens etc. The supply air outlets to this room must **not** blow conditioned air directly onto the touch screen, as the temperature sensor is located in the CCTS.
10. Connect the AC unit control cable from the fan coil unit controls to the CACUM. (This cable is supplied by the AC unit manufacturer and is normally used to connect the fan coil unit controls to the AC unit wall controller.
11. Only connect the power supply to the CT24VAC port after all components have been connected.

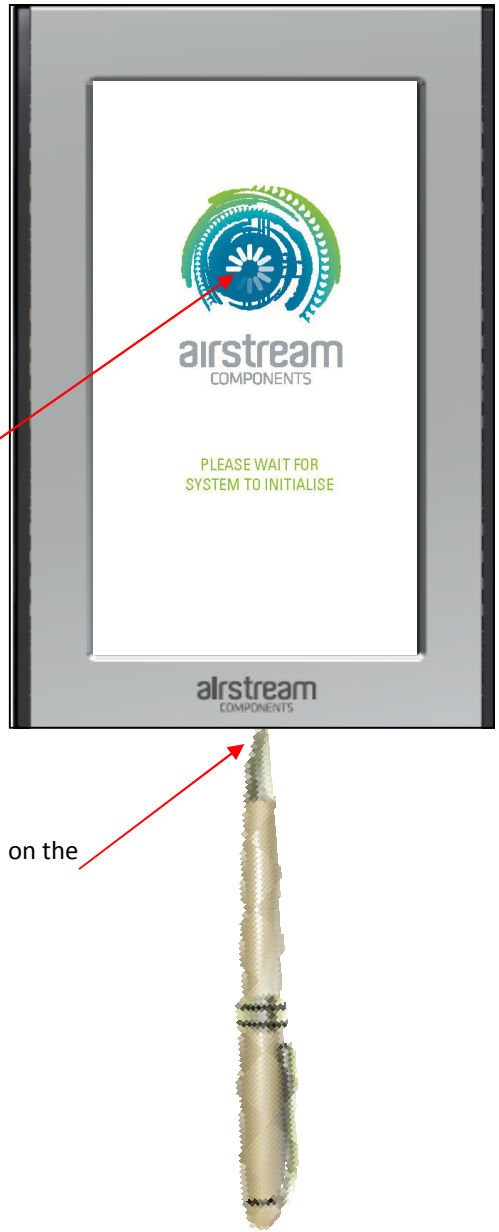
2.0 System initialisation

All new or modified systems must be initialised prior to system configuration.

To initialise the system press the button on the underside of any colour touch screen. This button is recessed so you will need to use a pen to press the button.

The time to initialise the system will vary depending on the number of motors connected.

The system will also initialise when power is restored after a power failure.



Airstream logo will spin while system is initialising.

Using a pen, press the button on the underside of the screen.

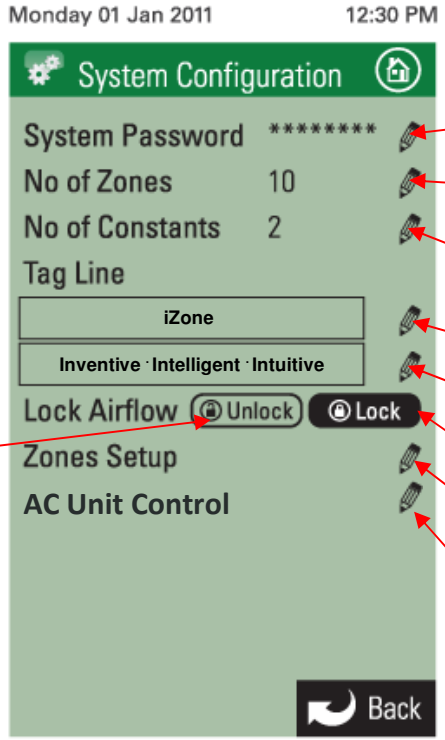
2.1 System configuration

WARNING ! Only qualified iZone installers should configure the iZone System. Incorrect configuration could result in damage to your air conditioning unit and system.

2.1 To configure your system click on the System Config icon on the home page.

Enter the system password "**wamfud**" and press the enter button. The enter button must always be touched to save changes.

2.2-2.5 You will now be in the System Configuration area:



Touch here to change the password.

Touch here to edit the number of zones installed.

Touch here to edit the number of variable electronic constant zones required.

Touch here to edit the first tag line.

Touch here to edit the second tag line.

Touch here to lock the airflow adjustment function on the user screens.

Touch here to unlock the airflow adjustment function on the user screens.

Touch here to set up and configure each zone (see 2.7).

Touch here to set up AC Unit control (see 2.8).

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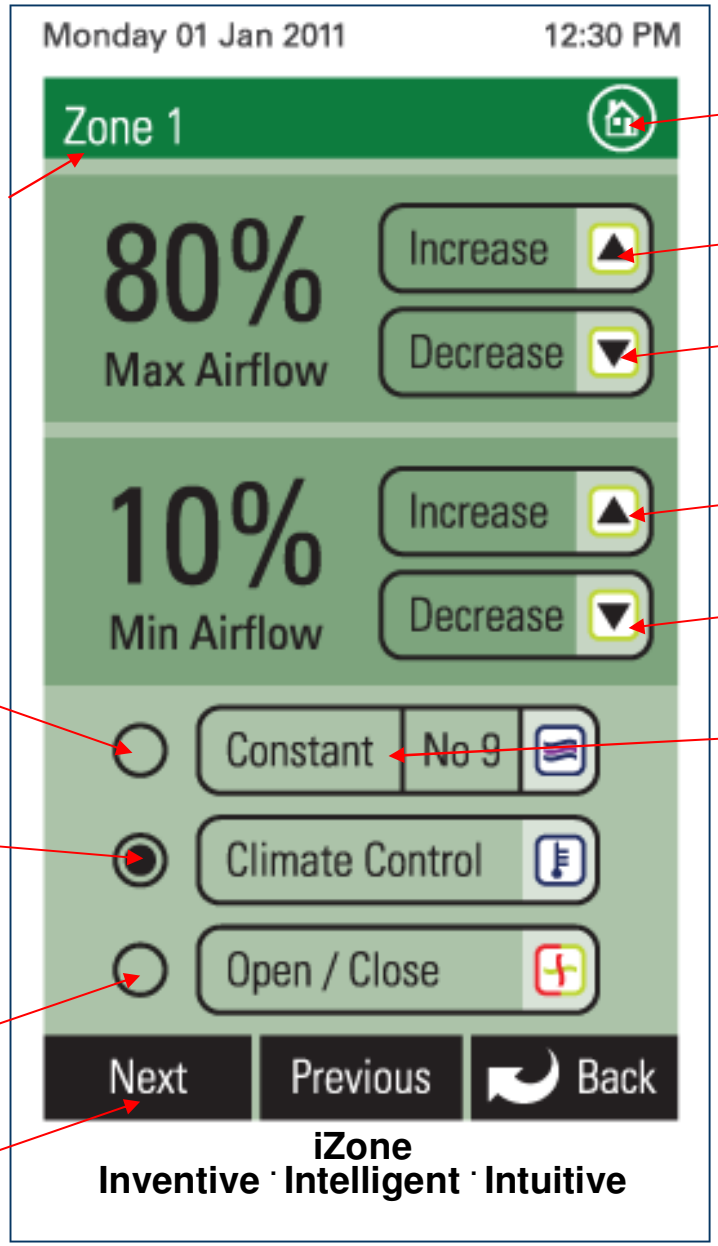
2.7 Zone set up



This is the zone that is currently being configured. If the zone has been named its name will show here

Touch here to go to the home screen

Touch here to increase the maximum airflow to the zone

Touch here to decrease the maximum airflow to the zone

Touch here to increase the minimum airflow to the zone

Touch here to decrease the minimum airflow to the zone

Touch here to make this zone an electronic variable constant

Touch here repeatedly if more than one constant zone is required. This will step through the constant numbers. Select which constant you want this zone to be

Touch here to make this zone a temperature controlled zone. <u>This must only be done from the screen installed in the temperature controlled zone</u>

Touch here to make this zone an open / close zone

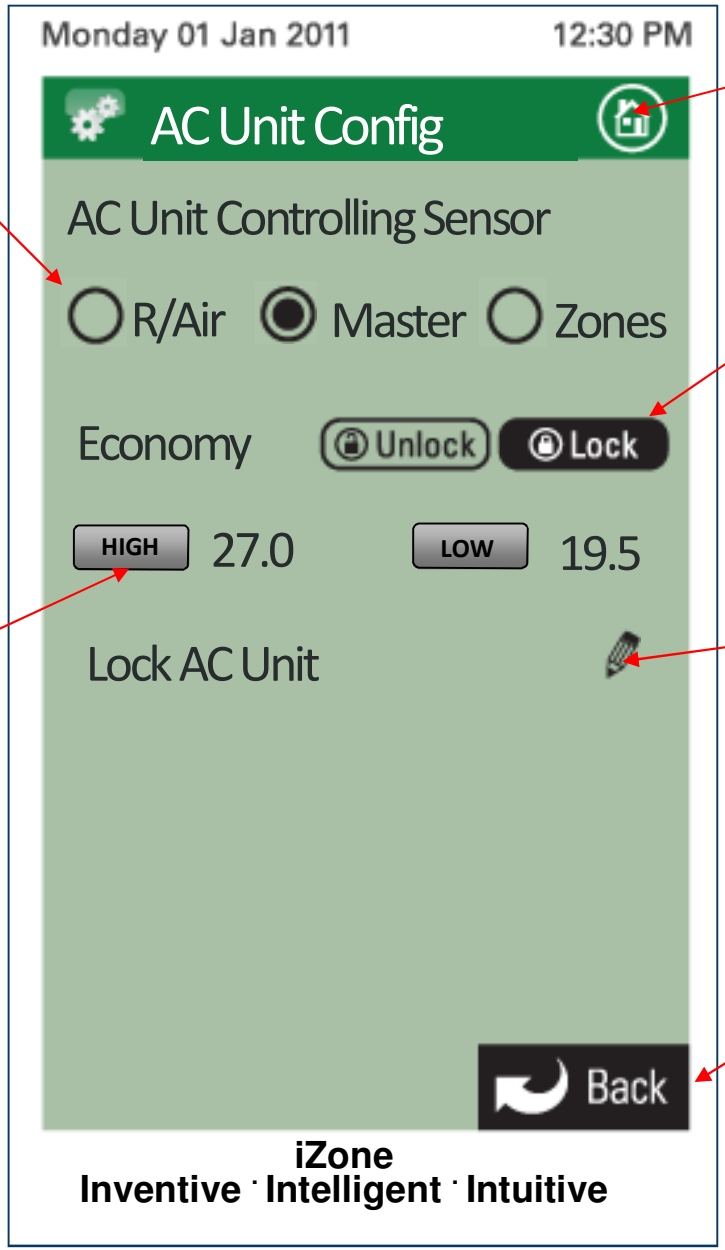
Touch here to proceed to the next zone

2.8 AC unit configuration

Select method of controlling the AC unit.

- R/Air will control using the unit's return air sensor.
- Master will control the AC unit from the colour touch screen that has been selected as the Master (3.1).
- Zones will automatically control the AC unit from the temperature controlled zones (3.1.2).

Toggle the high and low buttons to select the maximum and minimum temperature set points desired for "Economy Lock Mode".



Touch here to go to the home screen.

Touch to lock the Economy mode. The Economy mode will limit the maximum and minimum temperature the system can be set to control at.

Touch to lock the AC Unit. You will need to enter a PIN number and the number of days the system will operate until it is locked off. Do not forget your PIN. Service charges will apply for a technician to attend site to unlock your system.

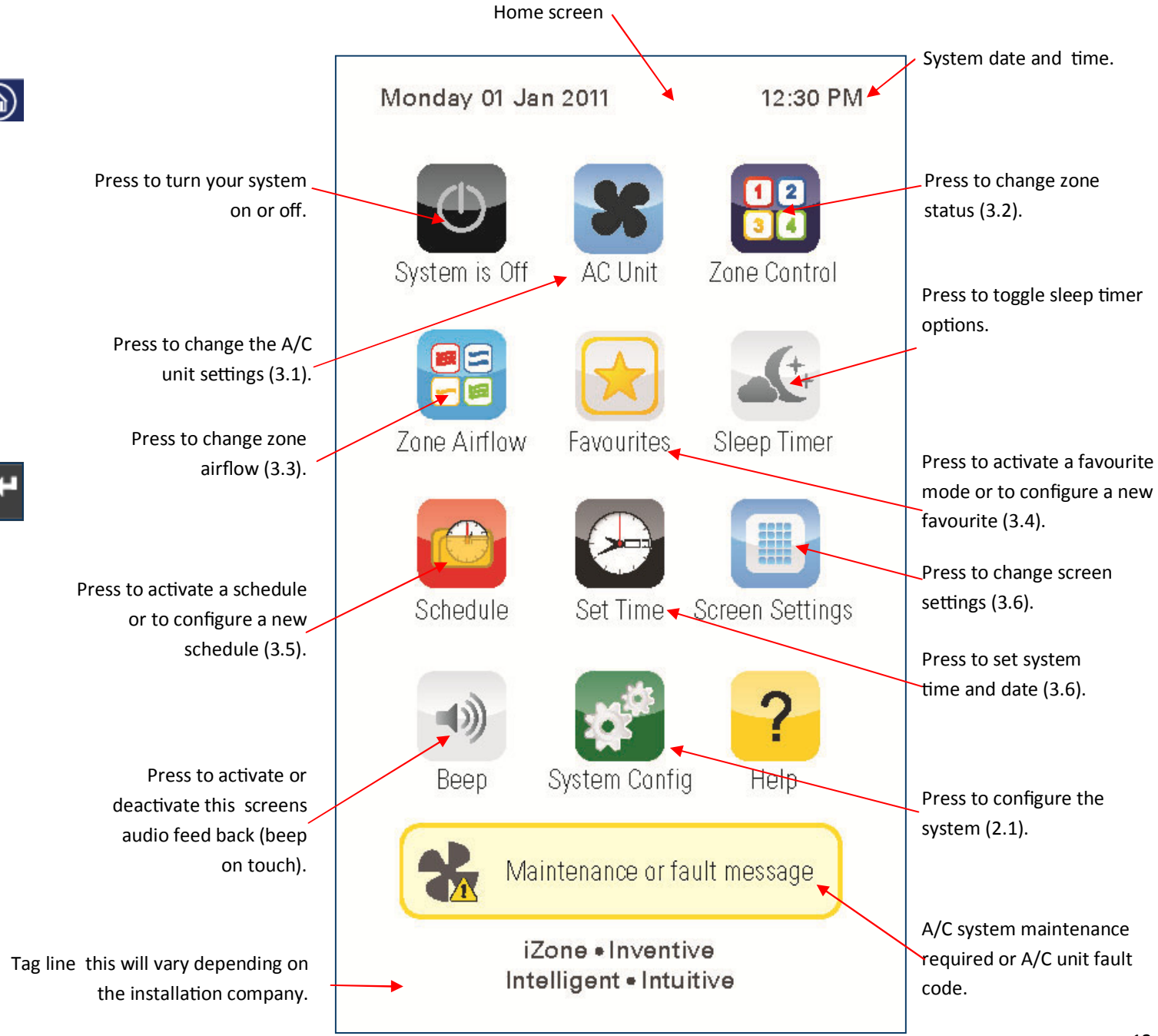
Touch here to go back and save the changes.

3.0 User manual

- To get back to the Home screen at any time press.

- When entering names or values using the keyboard it is easier to use a thin object such as a toothpick. Do not use sharp, hard objects as they may damage the screen. The enter button must always be pressed to save the changes you have made.

- Some functions may have been locked by your installer to ensure the commissioned values are not changed. To make changes to these values contact your installation company.


Home screen
System date and time.
Monday 01 Jan 2011
12:30 PM
Press to turn your system on or off.
System is Off
AC Unit
Zone Control
Press to change zone status (3.2).
Press to change the A/C unit settings (3.1).
Press to toggle sleep timer options.
Zone Airflow
Favourites
Sleep Timer
Press to change zone airflow (3.3).
Press to activate a favourite mode or to configure a new favourite (3.4).
Schedule
Set Time
Screen Settings
Press to activate a schedule or to configure a new schedule (3.5).
Press to change screen settings (3.6).
Press to set system time and date (3.6).
Beep
System Config
Help
Press to activate or deactivate this screens audio feed back (beep on touch).
Press to configure the system (2.1).
Maintenance or fault message
A/C system maintenance required or A/C unit fault code.
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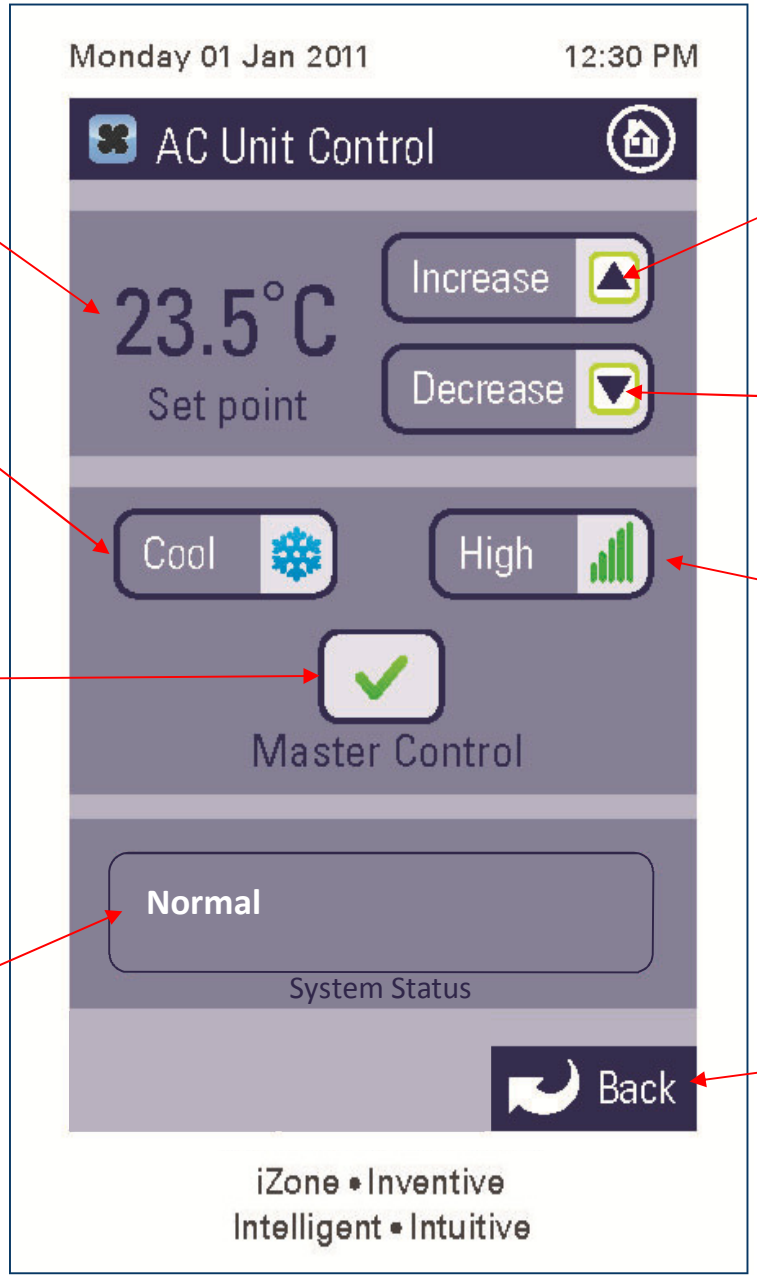
Tag line this will vary depending on the installation company.

3.1 AC unit



Current AC unit set point.

Press here to change the mode.

Indicates the temperature measured by this panel is currently controlling the AC unit (Only applicable if systems configured for "AC unit controlling sensor—Master" option. See 2.8).

Indicates the current status of the AC unit. If a fault code appears here please contact your installer.

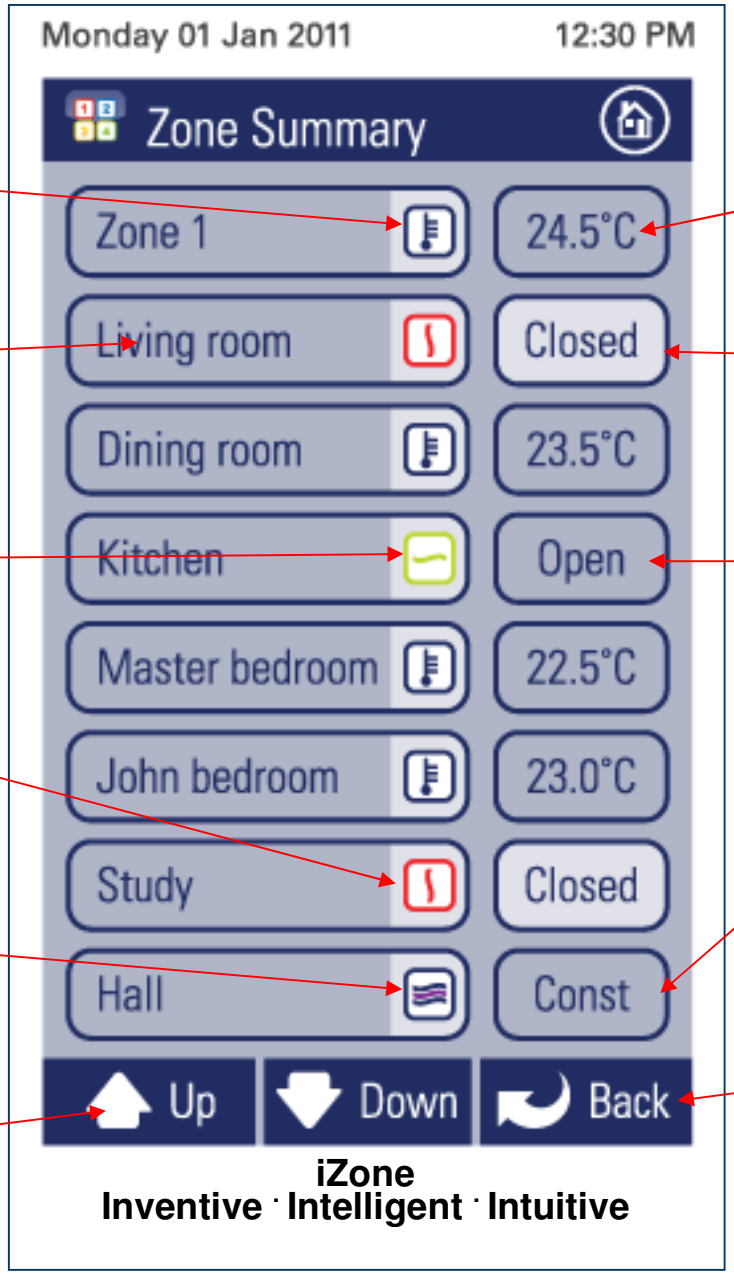
Press here to increase the AC unit set point. (Not applicable if "AC unit controlling sensor—Zones" option selected. See 2.8).

Press here to decrease the AC unit set point (Not applicable if "AC unit controlling sensor—Zones" option selected. See 2.8).

Press here to change the fan speed.

Press here to go back to the home page.

3.2 Zone control



Indicates this zone is currently in climate control mode.

Zone Name. Press to edit zone name and other zone settings (3.2).

Indicates this zone is currently fully open.

Indicates this zone is currently closed.

Indicates the hall is an electronic constant and it is currently active.

Scroll up or down to see more zones.

Indicates Zone 1 temperature set point. Press here to change the Set point. (3.3).

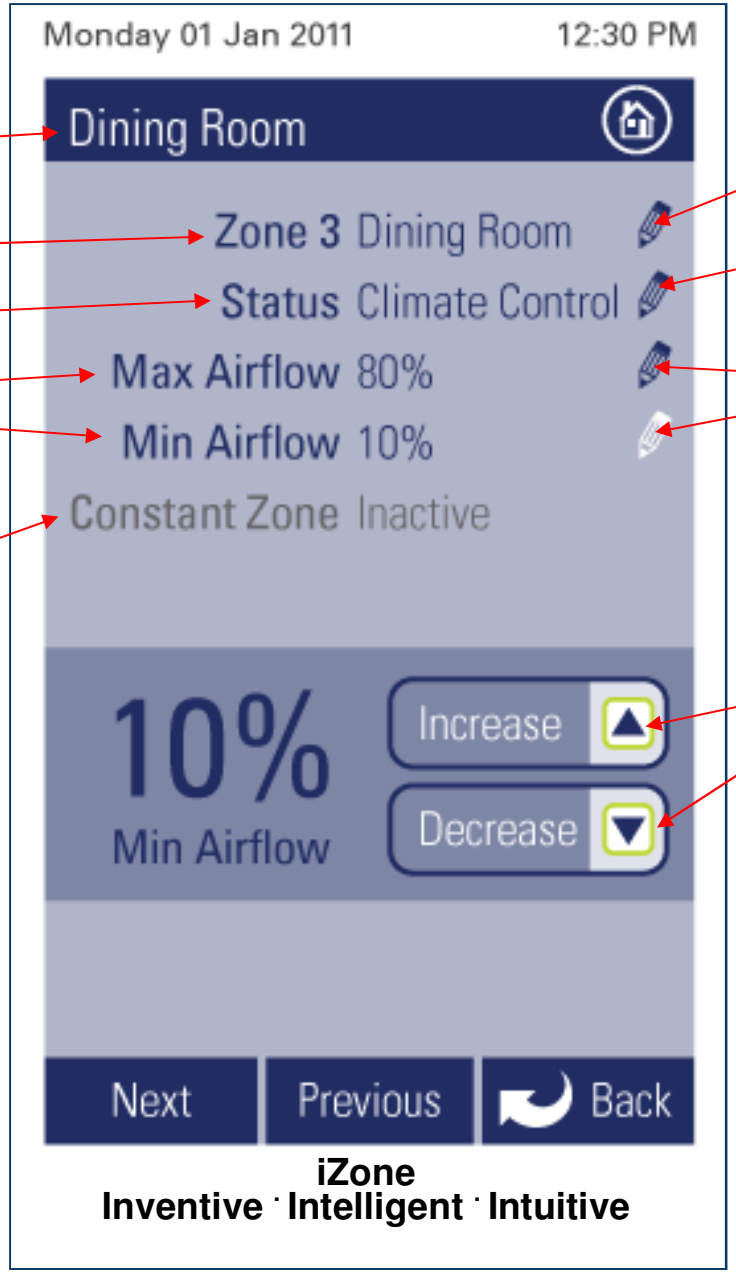
Indicates this zone is closed. Press here to open the zone.

Indicates this zone is open. Press here to close the zone.

Indicates this zone is currently being overridden by the system and is being used as a constant because too many zones are closed.

Press here to go back to the home page

3.2.1 Edit zone names & settings



Current zone being edited.

System zone number and display name.

Current zone status.

Zone maximum and minimum air flow set points.

Status of this zone if it has been selected as an electronic constant.

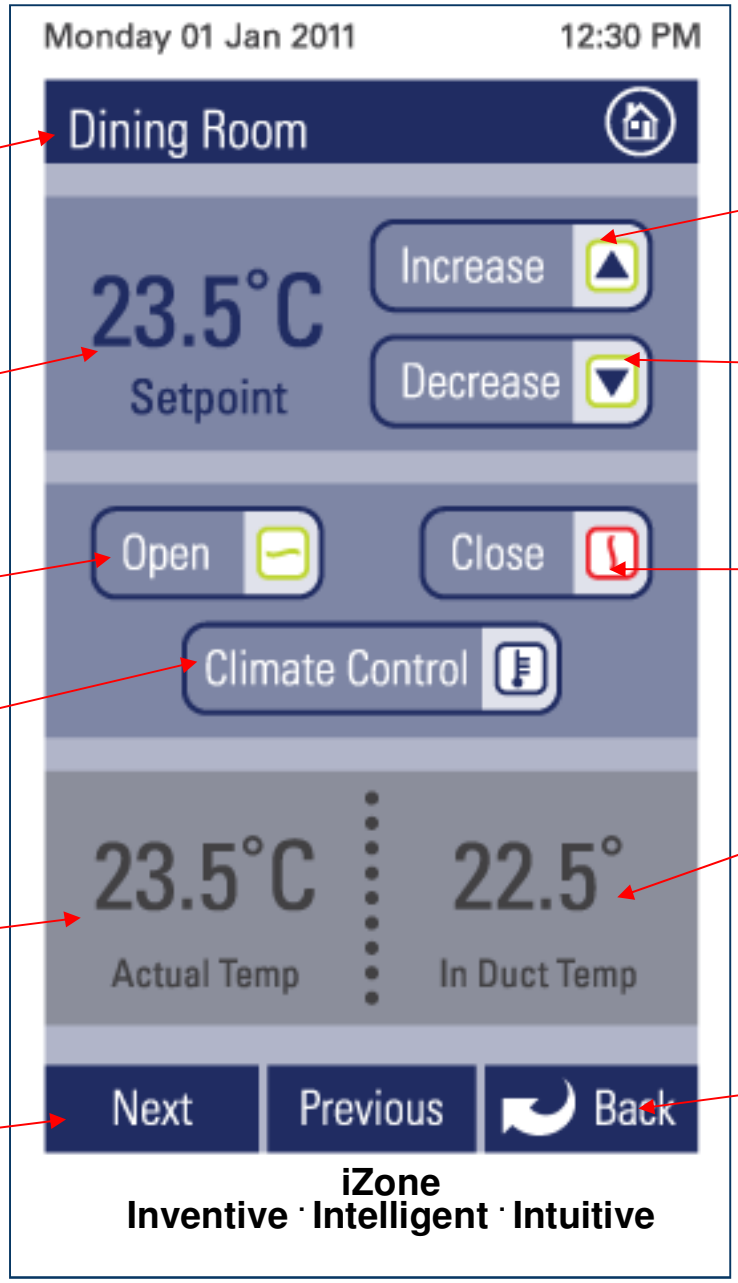
Press to edit zone name.

Press to edit current zone status.

Press to change maximum and minimum airflow set points.

Press to increase or decrease air flow set point.

3.2.2 Adjusting temperature controlled zones



Indicates current zone being adjusted.

Indicates current temperature set point required for this zone.

Press here to fully open this zone.

Press here to allow iZone to automatically control the temperature in this zone.

Indicates the actual temperature in this zone (as measured by iZone).

Scroll up or down to see more zones.

Press here to increase the current zone set point temperature.

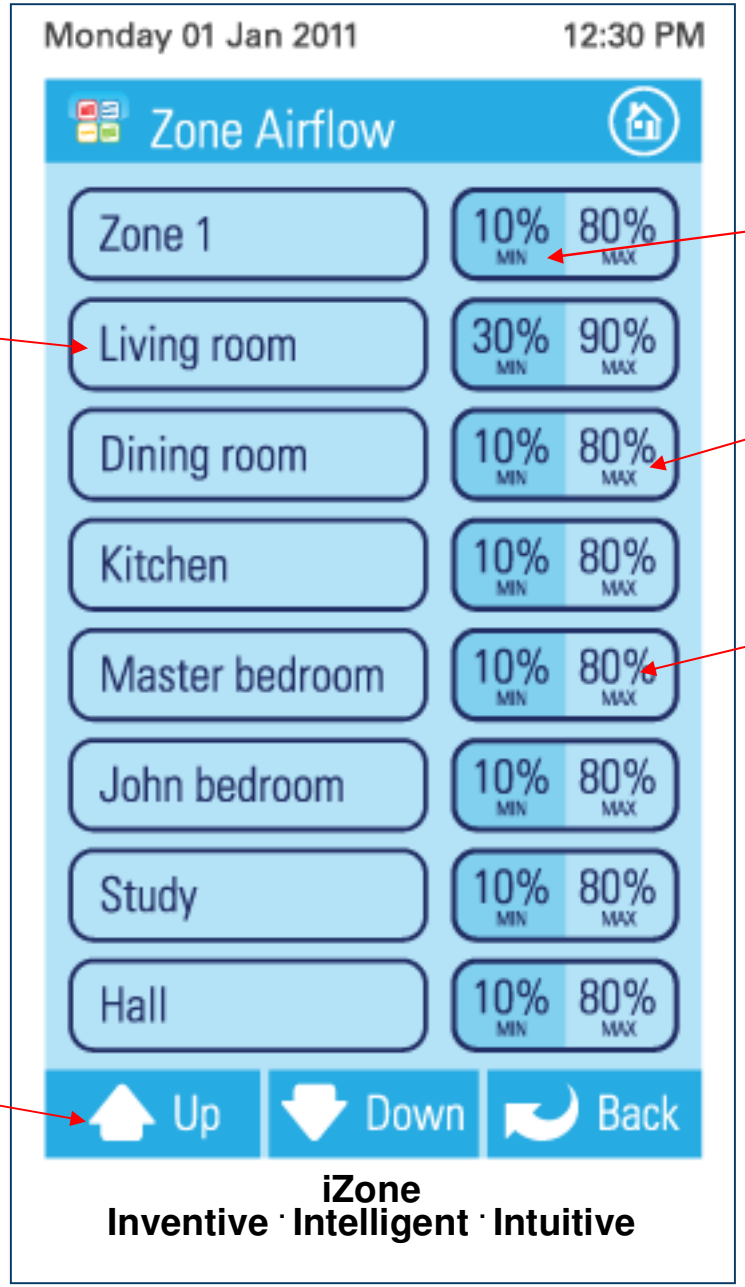
Press here to decrease the current zone set point temperature.

Press here to close this zone.

Indicates the current temperature of the air inside the air conditioning system ductwork.

Press here to go back to the zone summary.

3.3 Zone airflow summary



Zone name.

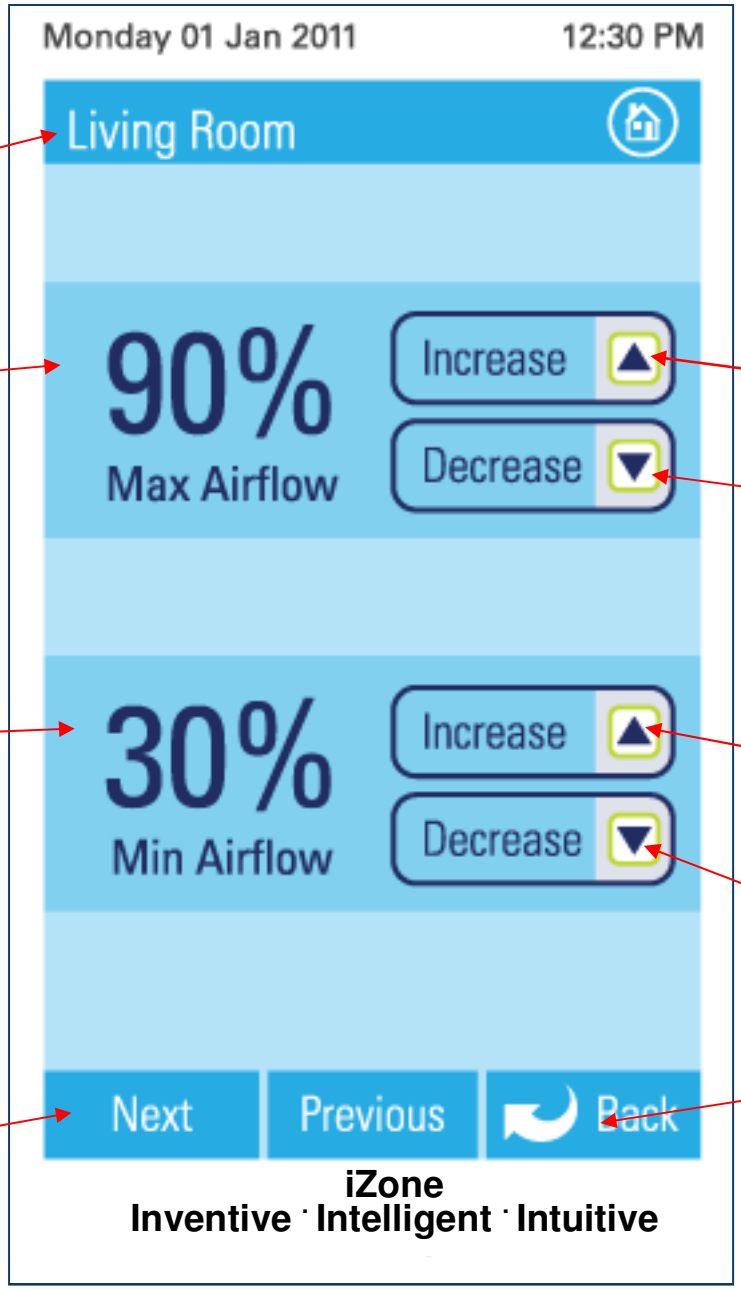
Indicates current minimum air flow setting to this zone.

Indicates current maximum air flow setting to this zone.

Press here to change the zone air flow settings (3.3.1).

Scroll up or down to see more zones.

3.3.1 Changing zone airflows



Indicates current zone that you are changing the airflow to.

Indicates the current maximum airflow setting for this zone.

Indicates the current minimum airflow setting for this zone.

(This is usually set at 0%).

Scroll up or down to see more zones.

Press here to increase the maximum airflow to this zone.

Press here to decrease the maximum airflow to this zone.

Press here to increase the minimum airflow to this zone.

Press here to decrease the minimum airflow to this zone.

Press here to go back to the airflow summary.

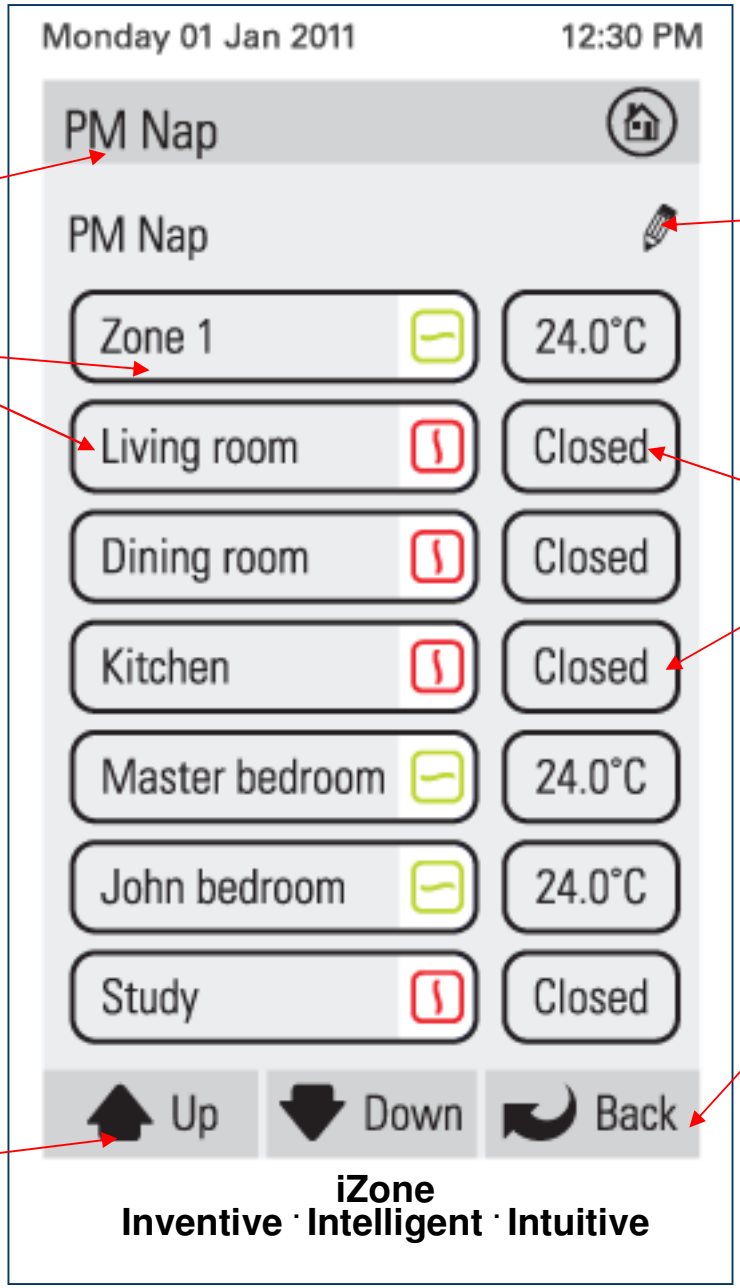
3.4 Favourites

Press the favourite you would like and iZone will automatically change all the zones settings for this favourite.

Indicates this favourite has not been used.

Press here to setup and edit favourites (3.2.1).

3.4.1 Assign and edit favourites



Indicates current favourite being changed.

Zone names.

Scroll up or down to see more zones.

Press here to change the name of this favourite.

Indicates what mode you want each zone to operate in when this favourite is used. Change each zone setting to suit your requirements for this favourite.

Press here to go back to the favourites summary. Pressing the back button will save the favourite setting selected.

3.5 Schedules

Any of your favourites can be set to automatically start at any time of your choosing. Press here to enable the time based schedule for favourite PM Nap.

Indicates an automatic time schedule has been enabled for this favourite.

Indicates no automatic time schedule has been enabled for this favourite.

Press here to set up or edit a schedule on any favourite (3.4.1).

3.5.1 Setting and editing a schedule

Monday 01 Jan 2011
12:30 PM
PM Nap
24Hr Time Format
START-08:00
STOP-17:30
Mon Tue Wed Thu Fri Sat Sun
Delete this schedule
1 2 3 4 5 6 7 8 9 0
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M , . /
Space
Next
Previous
Back
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Indicates current schedule that you are changing or setting.

Indicates the start time for this schedule.

Indicates the stop time for this schedule.

Indicates the days this schedule will not run. Press the day you want the schedule to apply to.

Press next to see the next schedule.

Indicates the days this schedule will apply. Press to stop the schedule running on this day.

Press here to delete this schedule.

Press the key pad to change the time. Remember it is in 24 hour format so for 2:30 am type in 0230.

Press the enter button to save your new setting.

Press here to go back to the schedule summary.

3.6 Setting the time

Monday 01 Jan 2011
12:30 PM
Set Time
24Hr Time Format
12:30
01 / 01 / 2011
Date / Month / Year
1 2 3 4 5 6 7 8 9 0
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M , . /
Space
Back
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Current time.

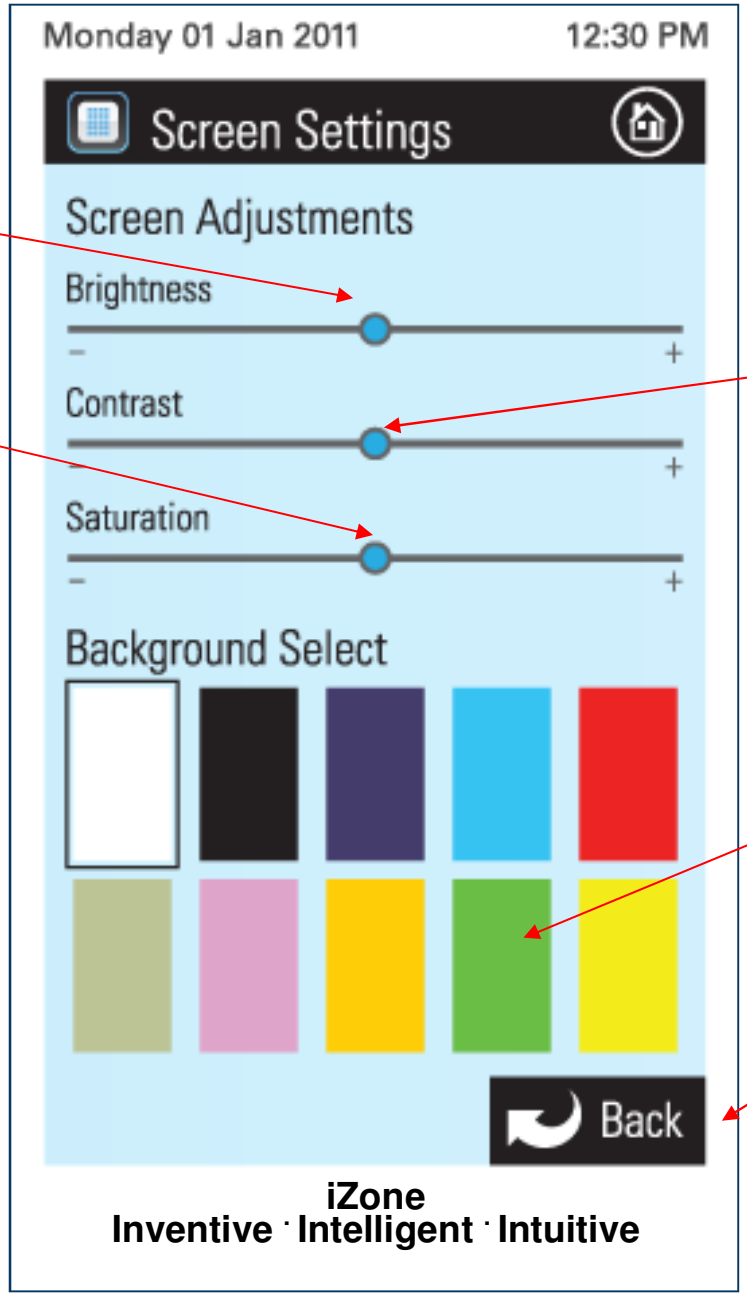
Current date.

Indicates the minutes are be changed.

Press the left or right arrows to move to the value you want to change.

You must press the enter button to save the changes you have made.

3.7 Changing the home screen colour



Slide left / right to adjust the screen brightness.

Slide left / right to adjust the screen saturation.

Slide left / right to adjust the screen contrast.

Press the colour you would like for your home screen. Fine adjustments to the shade, tone, hue can be made using the brightness, contrast and saturation slides.

Press here to go back to the home screen.

3.8 Further assistance

1. If your zone airflow adjustment or system has been locked you will need to contact your installation company to arrange for them to unlock this setting.

2. If you require warranty or maintenance on your air conditioning system or iZone system you should contact your installation company.

3. If you want to add more zones or temperature control to any zone you should contact your installation company.

4. If your require assistance operating your iZone contact:
   Airstream Components
   www.air-stream.com.au
   info@air-stream.com.au
   Phone 08 6254 2408